Functional Independence
Fall 2012

Science

Item Descriptors

Grade 5

MICHIGAN STATE BOARD OF EDUCATION
STATEMENT OF ASSURANCE OF COMPLIANCE WITH FEDERAL LAW

The Michigan State Board of Education complies with all Federal laws and regulations prohibiting discrimination and with all requirements and regulations of the U.S. Department of Education. It is the policy of the Michigan State Board of Education that no person on the basis of race, color, religion, national origin or ancestry, age, sex, marital status, or handicap shall be discriminated against, excluded from participation in, denied the benefits of, or otherwise be subjected to discrimination in any program or activity for which it is responsible or for which it receives financial assistance from the U.S. Department of Education.

DIRECTIONS: Read each question. Choose the **BEST** answer for each question.

1   R.RO.FI.EB.II.1.e.3a: Identify ways in which technology is used in everyday life

Recognize which of 3 electronic-technology objects is used for a specified function

A   selects the object used for the specified function

B   selects an object that does not support the specified function

C   selects an object that does not support the specified function

2   R.RO.FI.EB.II.1.e.3a: Identify ways in which technology is used in everyday life

Identify the best source of reference information to apply for the specified task

A   does not select the best information, via electronic media, for the task

B   does not select the best information, via electronic media, for the task

C   selects the best information, using electronic media, for the task

3   L.OR.FI.EB.III.2.e.1a: Identify characteristics of observable body parts in a variety of animals

Identify the common observable body characteristic among a group of animals

A   recognizes the common body characteristic that all animals in the group have

B   selects a body characteristic not common for all animals in the group as drawn

C   selects a body characteristic not common for all animals in the group as drawn

4   L.OR.FI.EB.III.2.e.1a:
Identify characteristics of observable body parts in a variety of animals

Recognize how an animal uniquely uses its observable and common characteristic among other animals with same characteristic

A   selects an animal that does not use the body characteristic for the specified purpose

B   identifies the animal that uses the body characteristic for the specified purpose

C   selects an animal that does not use the body characteristic for the specified purpose

5   L.OR.FI.EB.III.2.e.3a:
Identify life cycles of familiar organisms

Recognize a difference between complete and incomplete metamorphosis

A   selects a development stage common to both complete and incomplete metamorphosis

B   recognizes the development stage that is missing from incomplete metamorphosis

C   selects a development stage common to both complete and incomplete metamorphosis

6   L.OR.FI.EB.III.2.e.4a:
Identify the basic life requirements of plants and animals

Recognize that plants display directed growth to obtain essential life requirements

A   selects a resource toward which a plant does not show directed growth to obtain essential life requirements

B   selects the basic life requirement for which a plant shows directed growth

C   selects a resource for which a plant does not show directed growth to obtain essential life requirements

7   L.OR.FI.EB.III.2.e.4a:
Identify the basic life requirements of plants and animals

Recognize the type(s) of organism(s) that have a specified life function

A   selects an incomplete set of organisms that have the specified life function

B   selects an incomplete set of organisms that have the specified life function

C   selects a complete set of organisms that have the specified life function

8   L.OR.FI.EB.III.2.e.5a:
Identify functions of selected seed plant parts

Recognize the function of a specified plant part

A   selects the process carried out by the specified plant part

B   selects a process not performed by the specified plant part

C   selects a process not performed by the specified plant part

9 L.OR.FI.EB.III.2.e.3a:
Identify life cycles of familiar organisms

Place the life cycle stages in order for a specified organism

A   inaccurately orders the life cycle stages

B   accurately orders the life cycle stages for the organism

C   inaccurately orders the life cycle stages

10 L.HE.FI.EB.III.3.e.1a:
Identify how parents and their young look alike

Recognize which 1 of 3 observable traits is biologically passed from parent to offspring

A   selects an observable trait that is not passed biologically from parent to offspring

B   selects the observable trait that is biologically passed from parent to offspring

C   selects an observable trait that is not passed biologically from parent to offspring

11 L.HE.FI.EB.III.3.e.1a:
Identify how parents and their young look alike

Using a listing of the physical features of a parent organism, recognize which feature will most likely occur among the offspring

A   selects a feature description not likely to be observed among the offspring

B   selects a feature description not likely to be observed among the offspring

C   selects the feature description most likely to occur

12 L.EV.FI.EB.III.4.e.2a:
Identify how an animal may adapt to its environment

Recognize how specific types of animals adapt to their specified environmental conditions

A selects a general statement that does not indicate adaptation to the specified environmental conditions

B correctly selects a behavior by the animals that is adaptive to the specified environmental conditions

C selects an animal feature that has no bearing on adaptation to the specified environmental conditions

13 L.EC.FI.EB.III.5.e.2a:
Identify the basic requirements for all living things to maintain their existence

Recognize which human activity would temporarily benefit a specified organism's survival

A selects a human activity that does not benefit the specified organism's survival

B selects the human activity that provides some support for the specified organism's survival

C selects a human activity that does not benefit the specified organism's survival

14 L.EC.FI.EB.III.5.e.4a:
Identify positive and negative effects of humans on the environment

Recognize the environmental benefit from a specified technological change

A　selects the environmental issue that benefits from the technological change

B　selects an environmental issue that does not directly benefit from the technological change

C　selects an environmental issue that would have some benefit, however not the most benefit, from the technological change

15 L.EC.FI.EB.III.5.e.1a:
Identify familiar organisms as part of a food chain or food web

Identify which of three organisms is a producer

A　selects a consumer

B　selects the producer

C　selects a consumer

16 P.ME.FI.EB.IV.1.e.1a:
Classify common objects and substances

Identify which object has the greatest amount of a specified physical property

A　selects an object not having the greatest amount of the physical property

B　selects an object not having the greatest amount of the physical property

C　selects an object that has the greatest amount of the physical property

17 P.ME.FI.EB.IV.1.e.2a: Identify properties of materials that make them useful

Recognize the property providing the primary useful purpose for a specified object

A　selects a property of the object that is not the object's main purpose

B　selects a characteristic of the object that is not relevant to its main purpose

C　selects the property of the object that fulfills the main purpose of the object

18 C.CN.FI.EB.I.1.e.5a: Identify and/or use various sources of scientific information

Recognize the resource that enables access to a specified source of information

   A   correctly selects the resource through which access to the information occurs

   B   selects a resource that does not provide access to the specified information

   C   selects a resource that does not provide access to the specified information

19 C.CN.FI.EB.I.1.e.1a: Identify and/or generate questions about the world based on observation

Recognize the question that applies to the specified research topic

   A   selects an off topic question

   B   selects the question that directly relates to the purpose for the investigation

   C   selects an off topic question

20 P.ME.FI.EB.IV.1.e.5a: Identify possible electrical hazards to be avoided at home and at school

Recognize the safest action to remove power from a specified device after the device becomes disabled

   A   selects an action to remove power that is not safe

   B   selects the safest action to remove power from the specified device

   C   selects an action to remove power that is not safe

21 P.CM.FI.EB.IV.2.e.1a: Identify common physical changes in matter

Recognize the action that will cause a specified physical change in state of a specified material

   A   selects an action that will not bring about the specified change in state

   B   selects the action that will produce the specified change in state for the specified material

   C   selects an action that will not bring about the specified change in state

22 P.CM.FI.EB.IV.2.e.2a:
Prepare mixtures and separate them into their component parts

Recognize the lab technique that will accomplish a specified task

A   selects a lab technique that does not address the specified task

B   selects a lab technique that does not address the specified task

C   selects the lab technique that will accomplish the specified task

23 P.CM.FI.EB.IV.2.e.2a:
Prepare mixtures and separate them into their component parts

Recognize which mixture example can be separated by the specified tool

A   selects a mixture that the tool can not separate

B   selects a mixture that the tool can not separate

C   selects the mixture that the tool can separate into two components

24 P.CM.FI.EB.IV.2.e.2a:
Prepare mixtures and separate them into their component parts

Recognize the process required to separate a specified mixture into two components

A   selects the process that will separate the mixture into two components

B   selects a process that will not separate the mixture

C   selects a process that will not separate the mixture

25 P.MO.FI.EB.IV.3.e.3a:
Identify patterns of interaction of magnetic materials

Understand the basis of how a compass detects direction

A   selects a description of compass construction that will not enable a compass to function

B   selects a description of compass construction that will not enable a compass to function

C   selects a description of compass construction that enables a compass to detect a direction

26 P.MO.FI.EB.IV.3.e.4a:
Identify and/or use simple machines to change effort

Given 3 types of tools, recognize which tool represents a specified simple machine

A   selects a tool that is not an example of the specified simple machine

B   selects the tool that is an application of the specified simple machine

C   selects a tool that is not an example of the specified simple machine

27 P.WV.FI.EB.IV.4.e.1a:
Describe sounds in terms of their properties

Recognize how a specified action affects the property of the sound from a specified object

A   selects a change in sound property that does not occur from action on the source of the sound

B   selects the correct change in sound property by the action taken on the source of the sound

C   selects a change in sound property that does not occur from action on the source of the sound

28 P.WV.FI.EB.IV.4.e.2a:
Identify and/or recognize how sounds are made

Recognize a essential requirement for sound to occur

A   selects a physical condition that does not necessarily produce a sound

B   selects a physical condition that does not necessarily produce a sound

C   selects a condition required for a sound to occur

29 E.GE.FI.EB.V.1.e.3a: Identify and/or describe changes in the earth's surface

Recognize an event that leads to a specified change in Earth's surface

A   selects the geophysical event that leads to the change

B   selects a weather event that has no relation to the specified change

C   selects a weather event that has no relation to the specified change

30 P.WV.FI.EB.IV.4.e.3a:
Identify and/or use prisms and filters with light sources to produce various colors

Recognize the atmospheric component through which light must pass to produce a natural phenomenon

A   selects an atmospheric component light does not pass through

B   selects the correct atmospheric component which light passes through in order to produce the phenomenon

C   selects an atmospheric component that is not involved with the phenomenon

31 E.GE.FI.EB.V.1.e.2a: Identify types of earth materials

Recognize which Earth material will best apply to the specified task

A   selects the Earth material that will best fulfill the specified task

B   selects an Earth material that will not fulfill the specified task

C   selects an Earth material that will not fulfill the specified task

32 E.HY.FI.EB.V.2.e.1a: Identify the three states of water on earth

Given three different drawings of specific features found either on Earth's surface or Earth's atmosphere, recognize the drawing that represents a common Earth resource

A   selects the drawing that represents the common Earth resource

B   selects a drawing that does not represent the common Earth resource

C   selects a drawing that does not represent the common Earth resource

33 E.HY.FI.EB.V.2.e.2a: Trace the path that rain water follows after it falls

Recognize the path that water will flow

A   selects a path that the water will not follow

B   selects a path that the water will not follow

C   selects the downhill path that the water will follow

34 E.AW.FI.EB.V.3.e.2a: Identify and/or describe seasonal changes in Michigan's weather

Recognize the difference in expected weather conditions between 2 specified seasons

A   selects weather condition differences that are not expected between the 2 specified seasons

B   selects weather condition differences that are not expected between the 2 specified seasons

C   selects the weather condition differences that are expected to occur between the 2 specified seasons

35 E.AW.FI.EB.V.3.e.3a: Identify and explain appropriate safety precautions during severe weather

Recognize the most appropriate response to take for safety under the specified situation

A   selects the best behavior response

B   selects a behavior that leaves the person vulnerable

C   selects a behavior that leaves the person vulnerable